Audio CD Recorder

CDR 785

Toll Free Help Line
Ligne d'assistance en service libre
Linea de ayuda telefónica sin cargo
800-531-0039

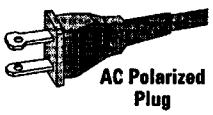
Let's make things better.

PHILIPS

IMPORTANT SAFETY INSTRUCTIONS – Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. **Read these instructions** – All the safety and operating instructions should be read before the appliance is operated.
2. **Keep these instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed all warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow all instructions** – All operating and use instructions should be followed.
5. **Do not use this apparatus near water** – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
6. **Clean only with a damp cloth.** The appliance should be cleaned only as recommended by the manufacturer.
7. **Install in accordance with the manufacturers instructions. Do not block any of the ventilation openings.** For example, the appliance should not be situated on a bed, sofa, rug, or similar surface or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
8. **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. **Do not defeat the safety purpose** of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

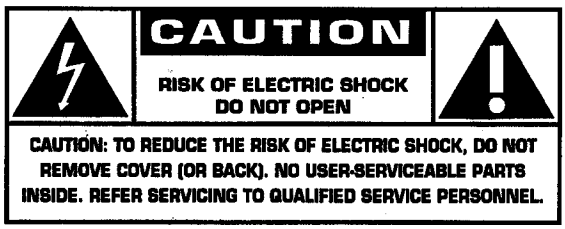

AC Polarized Plug

10. **Protect the power cord** from being walked on or pinched particulary at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. **Only use attachments/accessories** specified by the manufacturer.
12.
Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. **Unplug this apparatus** during lightning storms or when unused for long periods of time.
14. **Refer all servicing** to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

EL 4562-E004: 99/3

Know these

safety symbols


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

For Customer Use
Enter below the Serial No. which is located on the bottom of the set. Retain this information for future reference.

Model No. _____

Serial No. _____

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

CAUTION

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.10. Operation is subject to the following two conditions:

1. *This device may not cause harmful interference, and*
2. *This device must accept any interference received, including interference that may cause undesired operation.*

CDN Canada

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables dans la règlement sur le brouillage radioélectriques édicté par le ministère des communications du Canada.

LASER

Type	Semiconductor laser GaAlAs
Wave lenght	775-795 nm (at 25°C)
Output Power	2,5 mW (Read)
	35 mW (Write)
Beam divergence	60 degree

This warning label is located on the rearside and inside this laser product.

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM
DANGER: INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
VARO! AVATTAESSA JA SUOJALUKITUS OHITEJTAESSA OLET ALTTIINANAKYMATTOMAALLE LASERSATEILYLLE.ALA KATSO SATEESEEN.
VARNING! OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPARREN AR URKOPPLAD. BETRAKTA EJ STRALEN

or

DANGER - Invisible laser radiation when open.
AVOID DIRECT EXPOSURE TO BEAM

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can be used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning this equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- reorient or relocate the receiving antenna.
- increase the separation between the equipment and receiver.
- connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- consult the dealer or an experienced radio/TV technician for help.

IMPORTANT

THIS PRODUCT WAS FCC VERIFIED UNDER TEST CONDITIONS THAT INCLUDED USE OF SHIELDED CABLES AND CONNECTORS BEWTEEN SYSTEM COMPONENTS. IT IS IMPORTANT THAT YOU USE SHIELDED CABLES TO REDUCE THE POSSIBILITY OF CAUSING INTERFERENCE TO RADIOS, TELEVISION SETS AND OTHER ELECTRONIC DEVICES.
IF YOU HAVE ANY PROBLEMS CONTACT YOUR DEALER.

ANY CHANGE OR MODIFICATIONS TO THE EQUIPMENT BY THE USER NOT EXPRESSLY APPROVED BY THE GRANTEE OR MANUFACTURER COULD VOID THE USER'S AUTHORITY TO OPERATE SUCH EQUIPMENT.

LIMITED WARRANTY

CD-R PLAYER

One Year Free Labor
One Year Free Service on Parts
This product must be carried in for repair.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For one year thereafter,* all parts will be repaired or replaced, and labor is free. After one year from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product that is used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Take the product to a Philips factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)
1-800-363-7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Service Solutions Group, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800

EL4965E006 / MAC 4110 / 12-98

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English

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English

Welcome !

Thank you for buying this Philips Compact Disc Recorder / CD Changer.

In the eighties Philips invented a new audio system - the CD. The CD (compact disc) revealed to you the new dimensions of digital sounds and added to the pleasures of audio. Compact disc technology permits a high contrast in loud as well as in quiet passages, with perfect channel separation. Philips has now further developed compact disc technology and the result is the CD recorder.

With your Philips CD Recorder/Changer, you can make your own high-quality audio CDs (subject only to legal restrictions on copying), either by recording at normal or high speed from the Changer to the Recorder, or by recording from an external source. And naturally, you can also play all pre-recorded audio CDs, using one or both decks individually.

About this manual

This manual gives instructions for operating this CD recorder where:
– the figures (**1**) throughout the text indicate a sequence of actions necessary to perform a certain operation;
– the arrows (➜) indicate the reaction from the recorder;
– the dots (•) indicate remarks, advice or special options within a sequence of actions. The dot-marked instructions are not necessary for the required operation.

All instructions in this manual are based on control via the keys on the set. If there are corresponding keys available on the remote control they can be used as well.

Environmental information

All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into three mono materials: cardboard (box), polystrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your set consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

As an ENERGY STAR® partner,
Philips has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Supplied accessories

– 2 Analog audio cords (with red and white plugs)
– 1 Digital coaxial cord(with black plugs)
– Power cord
– 2 batteries for the remote control, size AA
– Remote control

Technical data

Subject to modification without notice.

General

Power consumption .....16 W
Power consumption in Standby.....< 1 W
Operating temperature .....5-35° C
Weight .....6.0 kg
Dimensions .....435 x 360 x 140 mm

Audio

Frequency response .....2Hz-22.050 Hz
Playback S/N (A-weighted) CD (CDR).....127 (100) dB
Playback S/N CD (CDR) ..... 121 (98) dB
Playback Dynamic Range CD (CDR).....95 dB (94) dB
Playback Total Harmonic Distortion CD + CDR
.....- 90 dB/0.003 %
Channel separation CD (CDR) .....120 (89) dB
Recording S/N (A-weighted) .....96 dB
Recording S/N digital without SRC .....equal to source
Recording Dynamic Range .....92 dB
RecordingTotal Harmonic Distortion + noise
.....- 86 dB / 0.005%

English

Discs for recording

For recording, make sure to use special audio discs only. These discs are marked with “Digital Audio” and the logos shown below.

There are two different types of audio discs for the use on this CD recorder:

– **CD-Audio Recordable (CDR) discs**
These discs can be recorded on once and play in all standard CD players and CD recorders, when they are finalized.

– **CD-Audio ReWritable (CDRW) discs**
These discs can be recorded on, erased and re-recorded many times and play in CDRW compatible CD players and CD recorders, when they are finalized.

– All Philips CD players and CD recorders with the sticker shown here are CDRW compatible.

To ensure proper working of the set we recommend the use of Philips audio CDR and audio CDRW discs only.

Note: Do not use a computer CDR or CDRW as recording will not work properly!

In certain countries including the UK and certain Commonwealth countries, use of the product (or CD-Recorder) as shown or suggested in this user manual may require the permission of copyright holders.

Discs for playback

For playback on this CD changer and CD recorder you can use following audio discs:

– All pre-recorded audio CDs

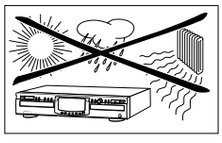
– All audio CDR and audio CDRW discs

Notes:
– Do not try to play a CD-ROM, CD-I or CDV!
– CDR(W) discs, which are recorded on a computer can only be used when they are correctly treated according the audio standard (IEC958: Consumer part). Single session only!

Maintenance

Clean the set with a soft, slightly dampened lint-free cloth. Do not use any cleaning agents as they may have a corrosive effect.

Do not expose the set, batteries or CDs to humidity, rain, sand or excessive heat (caused by heating equipment or direct sunlight).

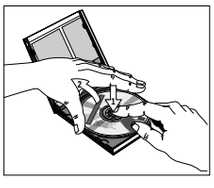


The lenses may cloud over when the set is suddenly moved from cold to warm surroundings. Playing a CD(RW) is not possible then. Leave the set in a warm environment until the moisture evaporates.

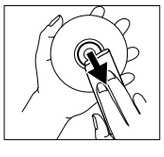
CDR(W) handling

For recording it is very important to use dust and scratch free discs.

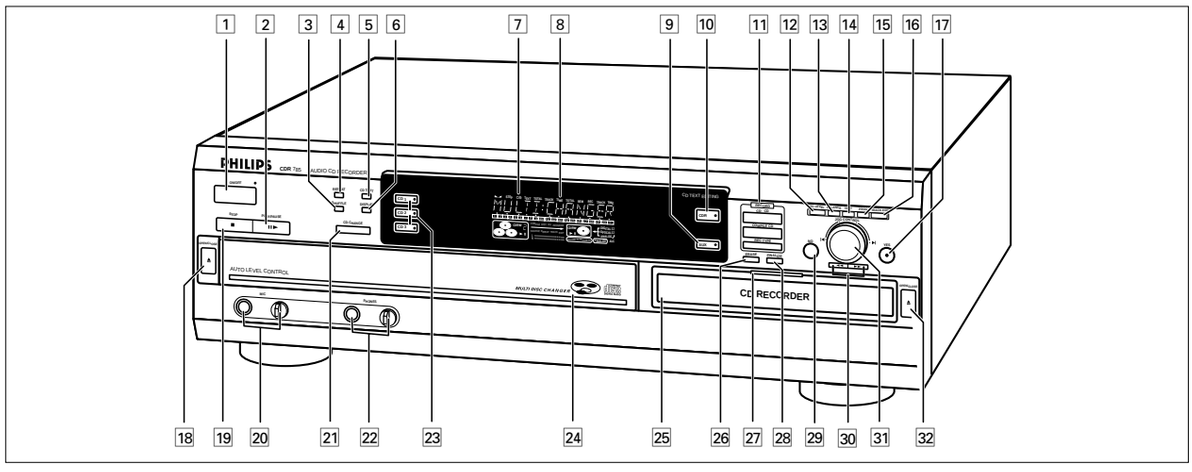
To take a CD(RW) out of its box easily, press the center spindle while lifting the CD(RW). Always pick up a CD(RW) by the edge and put it back after use. Never write on a CD or attach a sticker to it. Write only on the printed side of a CDR or CDRW, and only with a soft felt-tipped pen.



To clean a CD(RW), wipe it in a straight line from the center toward the edge using a soft, lint-free cloth.
A cleaning agent may damage the disc!



English



Controls on the front

General

1 **ON/OFF** .....turns the CD recorder/changer ON and OFF
ON/OFF indicator .....lights up when the set is switched on
2 **PLAY/PAUSE II ►** ....starts play/interrupts play
3 **SHUFFLE** .....plays discs in changer, program or CD(RW) in recorder in random order
4 **REPEAT**.....repeat play (All, program or track)
5 **CD TEXT**.....makes CD text scroll over display once
6 **DISPLAY**.....selects display information/text
7 **IR sensor** .....receives signals from the remote control
8 Display.....information screen
9 **AUX**.....selects external input
10 **CDR** .....selects CDR display/keys
17 **YES**.....- selects settings in Text Edit and Track Edit mode
.....- stores Text settings
.....- plays selected tracks
.....- programs track numbers
19 **STOP ■**.....stops playback or recording
20 **MIC**(rophone).....microphone jack
Level .....microphone volume control
22 **PHONES**.....jack for headphones
Level .....headphones volume control
23 **CD 1, 2, 3** .....select CD 1, 2 or 3/CD changer display and keys
29 **NO** .....- deletes tracks from a program
.....- deletes complete program
.....- deletes text in Text Edit mode
30 **◄◄**.....- searches backward
.....- reviews the tracks in a program
.....- controls the cursor in different menus (Text Edit and Track Edit)
►► .....- searches forward
.....- reviews the tracks in a program
.....- controls the cursor in different menus (Text Edit and Track Edit)
31 **I◄ JOG CONTROL ►I**.- previous/next disc/track (play and program mode)
.....- recording level control (recording)
.....- balance control (recording)
.....- selects settings (menu on)

CD changer

15 **PROG**(ram).....opens/closes program (review) memory
16 **TRACK EDIT** .....opens Track Edit mode to create your own 'tracks'
18 **OPEN/CLOSE ▲**.....opens/closes disc tray
21 **CD CHANGE**.....selects disc in CD changer
24 Disc tray

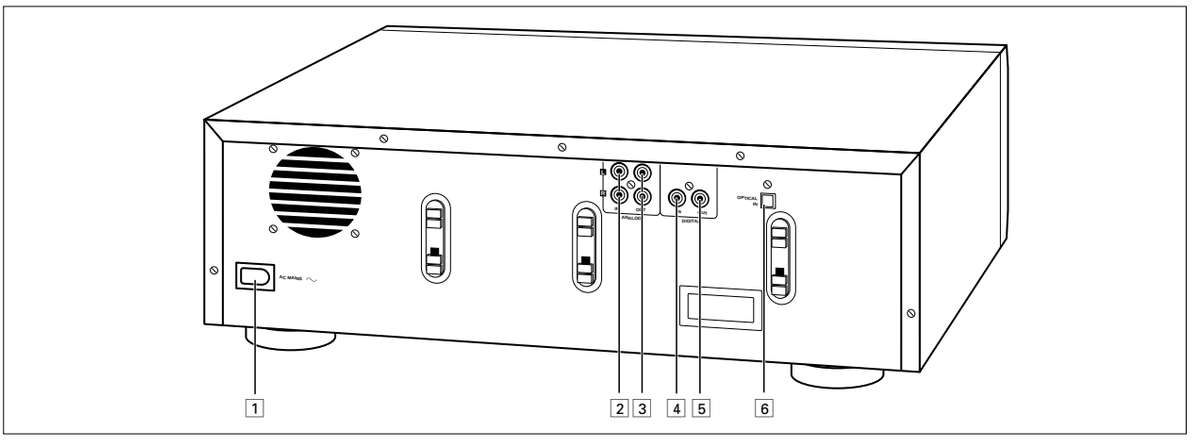
CD recorder

11 **Recording keys**
CD → CD.....selects high speed/auto finalise recording mode
COMPILE CD.....selects high speed recording mode/opens program memory
REC(ord) **TYPE** .....selects other recording modes
12 **REC**(ording) **LEVEL**.....enables the EASY JOG key to set the recording level control
13 **BALANCE**.....enables the EASY JOG key to set the balance
14 **TEXT/store**.....opens Text Edit mode and and stores entered text
25 Disc tray
26 **ERASE**.....erases recordings
27 **Recording Led**.....- Blue in Stop and Play mode
.....- Red during recording
.....- Red blinking during erasing
28 **FINALIZE**.....finalases/unfinalises disc
32 **OPEN/CLOSE ▲**.....opens/closes disc tray

Note: Unless stated otherwise, all controls are on the front of the CD recorder/changer. When provided on the remote control, you can also use the corresponding buttons, after selecting the CD recorder or CD Changer by pressing CD-R or CD 1, CD 2,or CD 3.

CONTROLS AND CONNECTIONS

English



Connections at the back

1 Connection to power

2 **ANALOG IN**.....connects to the line output of a tape deck, amplifier or other analogue source

3 **ANALOG OUT CDR & CD**
.....connects to the line input of an amplifier. (left and right)

4 **DIGITAL IN**.....connects to the digital coaxial output of an external CD player

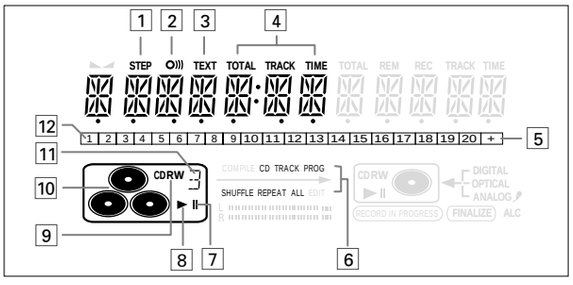
5 **DIGITAL OUT CDR & CD**
.....connects to the digital coaxial input of e.g. amplifier or recording device

6 **OPTICAL IN**.....connects to the digital optical output of an external CD player

English

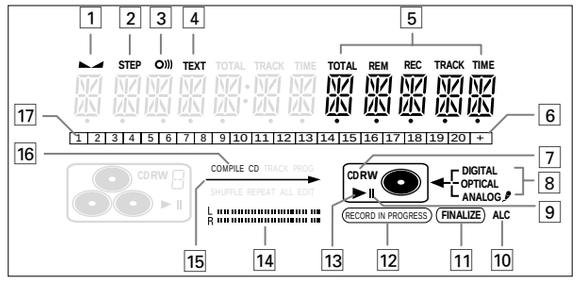
DISPLAY indications

CD changer section



1 **STEP**.....indicates the number of tracks in a program
2 ○))) .....remote control active
3 **TEXT**.....CD TEXT active
4 **TRACK TIME**.....track time (CDC)
TOTAL TIME.....total time (CDC)
TRACK.....track number
5 **+** .....disc or program contains more than 20 tracks
6 **PROG**.....flashes during programming/ lights in program mode
SHUFFLE.....plays tracks in random order
REPEAT TRACK...lights up when a track is repeated
ALL.....lights up when all tracks on the discs in the changer are repeated/when a program is repeated
CD .....lights up when a complete disc in the changer or recorder is repeated
7 **II** .....pause function active
8 ► .....lights during play
9 **CD** .....CD selected (a pre-recorded CD or finalised CD-R or CD-RW disc)
CD R.....unfinalised CD R disc selected
CD RW.....unfinalised CD RW disc selected
10 .....CD changer selected and CD(s) inserted in compartment 1, 2 and/or 3 (a prerecorded CD or finalised CD-R or CD-RW disc)
11 ∃ .....disc in play or selected
12 **Track bar**.....indicates:
.....- number of tracks on a disc or in a
..... program
.....- number of track in play

CD recorder section



1 ◺◿ .....balance
2 **STEP** .....indicates the number of tracks in a program
3 ○))).....remote control active
4 **TEXT**.....CD TEXT active
5 **TRACK TIME**.....track time (CDR)
TOTAL TIME.....total time (CDR)
REM REC TIME .remaining recording time
REM TRACK TIME remaining track time
TOTAL REM (TRACK) TIME
.....total remaining (track) time (in dubbing mode)
6 **+** .....disc or program contains more than 20 tracks
7 **CD**.....CD inserted (a pre-recorded CD or finalised CD-R or CD-RW disc)
CD R.....unfinalised CD R disc inserted
CD RW.....unfinalised CD RW disc inserted
8 **DIGITAL** .....digital input selected for external recording
OPTICAL.....optical input selected for external recording
ANALOG.....analog input selected for external recording
.....microphone input active
9 **II** .....pause function active
10 **ALC**.....Auto Level Control active
11 **FINALIZE**.....lights up during finalizing a recording
12 **RECORD IN PROGRESS**
.....Lights during recording
13 ► .....lights during play
14 **L/R II II** .....indicates the audio signal level
15 ——→ .....internal recording activated
16 **COMPILE CD**.....lights up when Compile CD mode is selected
17 **Track bar**.....indicates:
.....- number of tracks on a disc or in a program
.....- number of track in play

DISPLAY

DISPLAY indications

Messages, as listed and explained here, may appear on the display for your guidance.

General

PHILIPS CD RECORDER
.....when set is switched on
READING .....reading disc information
OPEN CDC / CDR .during tray opening of changer/recorder
PROGRAM FULL .....program full
INSERT DISC .....insert disc or insert disc in correct way/when recording is activated while no CD is inserted
WRONG DISC .....inserted disc is no audio CD
NOTFINALIZED .....- lights up when unfinalized CDR(W) disc is inserted in CD changer
.....- flashes when CDR disc tray is opened with unfinalised CDR(W) disc inserted
MEMORY - % ..... - lights up when 87 % of memory is used
.....- gives the amount of memory used, when tray is opened

Recording

WAIT .....when STOP ■ is pressed during recording the first 4 seconds of a track
UPDATE .....updating disc contents
DISC-FULL .....no more recording possible
AUX DIGITAL .....digital coaxial input 1 selected
AUX OPTICAL .....digital optical input selected
AUX ANALOG.....analog input selected
COPY PROTECT .....no digital recording can be made of the external source
UNFINALIZED..... when opening the tray with an unfinalized disc inserted
CD FAST ? .....high speed recording of a complete disc from the CD Changer
TRACK FAST ?.....high speed recording of a single track from the CD Changer
CD LISTEN ? .....normal speed recording of a complete CD from the CD Changer
TRACK LISTEN ? normal speed synchronized recordingof a single a track
RECORD CD x ? ....recording of the entire disc selected
COMPILE CD ?.....High Speed recording of compilation (program) selected
AUX CD ?.....Synchronised Start of recording of a complete disc from external source
AUX TRACK ? .....Synchronised Start of recording of a single track from external source
AUX MANUAL ?.....Manual Start of recording from external source selected
AUX MIX MIC ? ....Manual Start of mixed recording of microphone and external source input
REC TR x ? .....select a track for recording
MIC ONLY ?.....Manual Start of microphone recording
CLEAR A-B ? .....when clearing a passage
A-B FAST ?.....highspeed recording of a particular passage
A-B LISTEN ? .....normal speed recording of a particular passage
REC LEV - xx DB record level is being adjusted
NOT FITTING .....time left on CDR(W) disc is not enough for proposed recording
ANALOG REC .....copy prohibited track found during internal recording. Track will be copied analog (Copy Protection Regulations).
ERASE ?.....recorder asks for confirmation when erasing
ERASE x + ? .....recorder asks for confirmation when erasing mote than one track
ERASE DISC ?.....recorder asks for confirmation when erasing a disc
FINALIZE ?.....recorder asks for confirmation when finalising a disc
FINALIZED .....when trying to finalise an already finalised disc
FINALIZED CD .....when trying to record on an already finalized disc
UNFINAL xx .....time countdown during unfinalizing
CHECK INPUT .....when RECORD is pressed while no digital source is detected
ERASE xx xx .....time countdown when erasing a track or a disc
FINAL xx xx .....time countdown when finalising a disc
PROF SOURCE .....when a professional source is connected
A - 0:00 .....when point A of a passage to be repeated is stored

Play

PROGRAM .....program mode selected
PLAY PROGRAM .....playback of program
CLEAR PROG ?.....when clearing a program
CD x ALL .....complete CD X selected for programming

English

Others

AUTO FINAL .....when activating/disactivating the auto finalize function
NO AUDIO TR .....when the recorder enters a data track during recording
FINALIZE CD .....laser power calibration performed 96 .....times, please finalize disc
INITIALIZING .....during laser power calibration for unfinalized discs
DISC RECOVER .....during disc recovering after power failure
OPC ERROR .....failure during OPC procedure (OPC = Optimum Power Calibration)
RECORD ERROR .....recording error in menu mode
DISC ERROR.....when trying to record on or finalize a recovered disc
MEMORY FULL/ .....when no more text can be stored for a
FINALIZE CD .....certain disc. Another disc has to be finalized to obtain memory space
NO TRACKS .....when text input is given for an empty disc
TEXT EDIT .....when entering Text Edit mode
ALBUM ARTIST .....when editing or erasing an artist name
ALBUM TITLE .....when editing or erasing a title
TR N ARTIST .....when editing or erasing an artist name per track
TR N TITLE .....when editing or erasing a title per track
TEXT ERASE.....when erasing text
ALL TEXT .....when erasing all text selected
ERASE .....when confirmation for erasing has to be given with YES key
ERASE ALL .....when confirmation for erasing has to be given with YES key
ERASE MEMORY .....when waiting for confirmation when erasing a text
TEXT MEMORY .....when selecting text review per unfinalised disc in memory
MEMORY EMPTY .....when TEXT MEMORY is selected while no text is in memory
AUTO TRACK .....when selecting auto track increment ON or OFF
ALBUM TITLE .....will be followed by album title
TRACK TITLE .....will be followed by track title
ALBUM ARTIST .....will be followed by artist name
TRACK ARTIST .....will be followed by track artist name
NO TEXT.....no text stored for disc/track

INSTALLATION

English

Connections general

For playback on the CD recorder from the CD changer deck the following outputs are present:
– Digital coaxial output (CD & CD-R)
– Analog output (CD & CD-R)
We advise you to connect these to the TAPE or CD-R input on your amplifier.

For external recording the following inputs are present:
– Digital optical input
– Digital coaxial input
– Analog input (stereo)

The connections you make will depend upon the possibilities your audio equipment offers. Please refer to the user manuals for your other audio equipment first.

Digital recordings (optical or coaxial) give the best performance in audio and usability (e.g. auto-track).
(The digital optical connection is less sensitive to external disturbances).
If your equipment does not offer digital connections, the high quality Analog-Digital-Convertor of your set will ensure very good audio performance when recordings are made from the analog input.

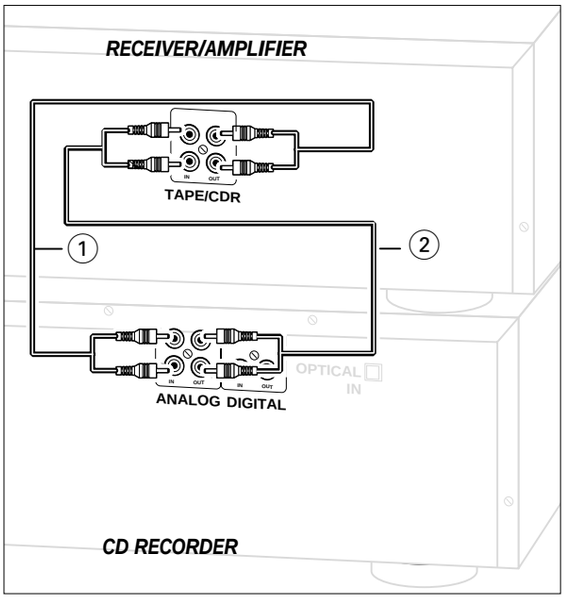
Playback via the digital coaxial output of the CD recorder gives the best audio performance.
If your equipment does not offer digital connections, the high quality Digital-Analog-Convertor of the set ensures a very good sound quality via the analog output.

We advise you to always establish both digital and analog connections. In this way you can always make analog recordings when digital recording is not possible.

We have described the most common ways of connecting the CD recorder. If you still have difficulties with the connections you can always contact the Philips Consumer Service desk in your country.

Analog connections

This connection must be made for playback on the CD recorder deck as well as the CD changer deck (cord 2). Cord 1 is only required if you want to make recordings from an external analog source.



Use the audio cords supplied. Connect the red plugs to the R jacks, and the white plugs to the L jacks.

1 For external recording, connect cord ① between the ANALOG IN-jacks on the set and the CDR LINE- or TAPE OUT-jacks of an amplifier.

Note: For recording directly from a CD player or tape deck, the analog input of the set should be connected to the analog output of the CD player or tape deck.

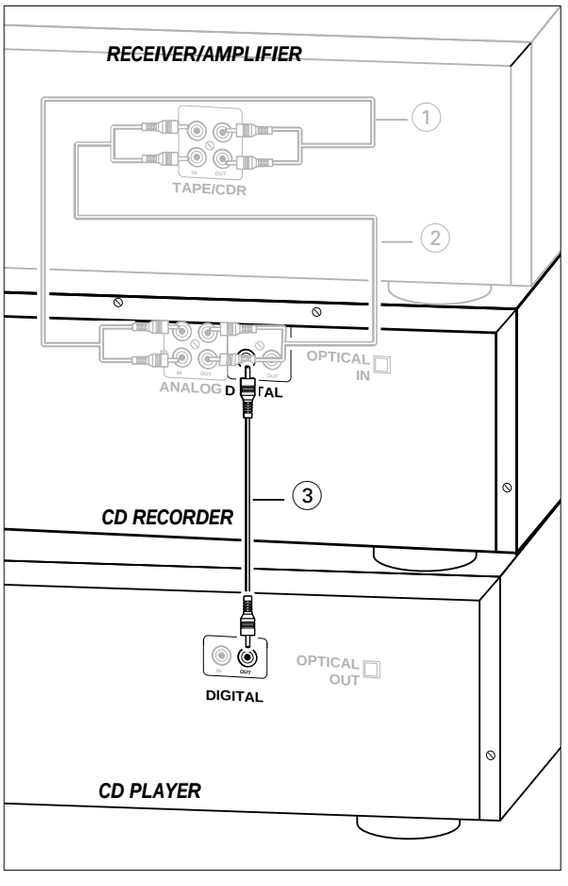
2 For playback, connect cord ② between the ANALOG OUT-jacks on the set and the input jacks of an amplifier e.g. TAPE IN, CD-R or AUX.

Note: Never use the PHONO input.

English

Digital coaxial connections

This connection is required if you want to make recordings from an external CD player with a digital coaxial output.

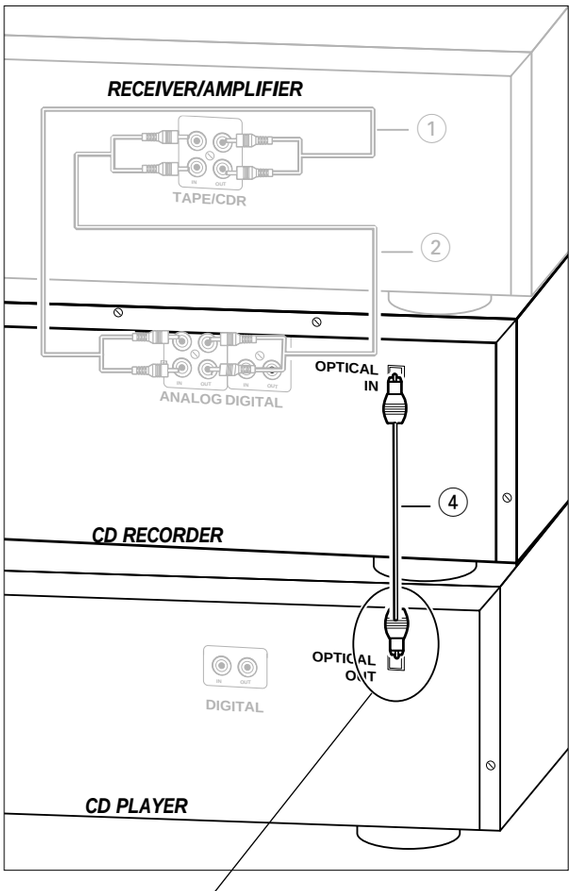


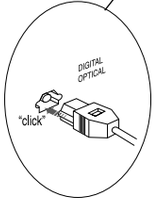
1 For external recording, connect the cord ③ between the DIGITAL IN-jack on the set and the DIGITAL OUT-jack of an external CD player.

Note: Your set is equipped with a digital coaxial output (common output for CD recorder & CD changer deck). This output can be used for digital playback. (e.g. Philips receiver FR960 or FR970.)

Digital optical connections

This connection is required if you want to make recordings from an external CD player with a digital optical output.





When connecting the Digital Optical cord, make sure it is fully inserted until there is a click.

1 Remove the dust caps from the digital optical connection. (We recommend you save the cap.)

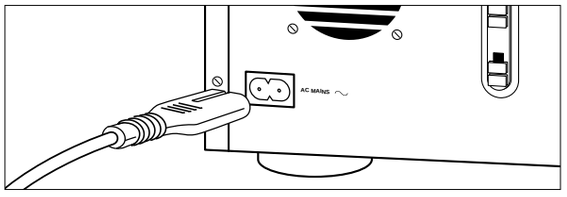
2 For external recording, connect a fibre-optic cord ④ between the digital optical input of the set and the digital-optical output of an external CD player.

Note: For playback, the digital coaxial outputs or analog outputs of the CD Changer and CD recorder should be connected to an amplifier.

INSTALLATION

English

Power supply/Mains



The type plate is located on the rear of the set.

1 Check whether the power voltage as shown on the type plate corresponds to your local power voltage. If it does not, consult your dealer or service organisation.

2 Make sure all connections have been made before switching on the AC power supply.

3 Connect the power cord supplied to AC POWER ~ and to the wall outlet. This switches on the AC power supply.

4 Press ON/OFF to switch on the set.
➜ PHILIPS CD RECORDER will be displayed.

- Press ON/OFF again to switch off the set.
- Press ⏻ on the remote control to switch the set to Standby mode.

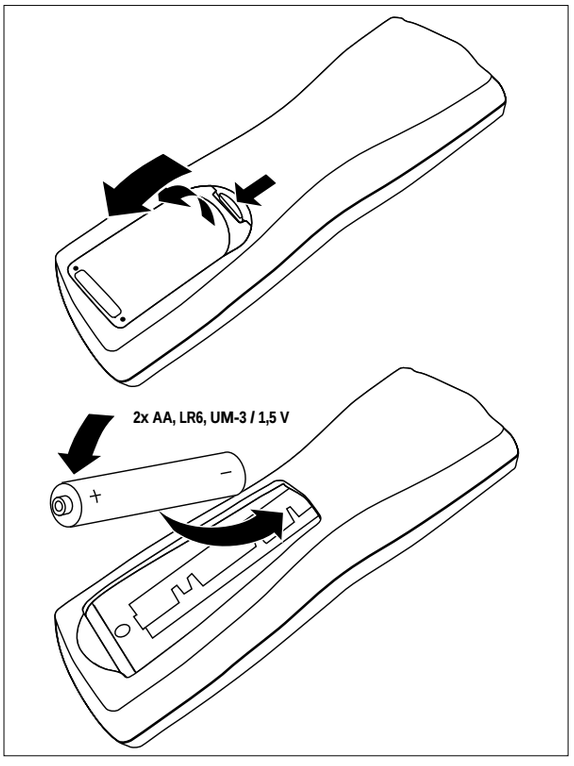
When the set is switched to standby, it is still consuming some power. To disconnect the set from the power completely, remove the power plug from the wall outlet.

For users in the U.K.: please follow the instructions on page 3.

Setup recommendations

– Place the set on a solid, vibration free surface.
– Make sure there is sufficient space around the set to prevent overheating.
– Do not place the set near a source of heat or in direct sunlight.
– Do not use the set under extremely damp conditions.
– If the set is placed in a cabinet, make sure that a 2.5 cm space remains free on all sides of the CD recorder for proper ventilation.
– Active mobile phones near to the set may cause malfunctions.

Inserting batteries in the remote control



1 Open the battery compartment cover.

2 Insert 2 batteries (AA, LR6 or UM-3; as supplied) as shown.

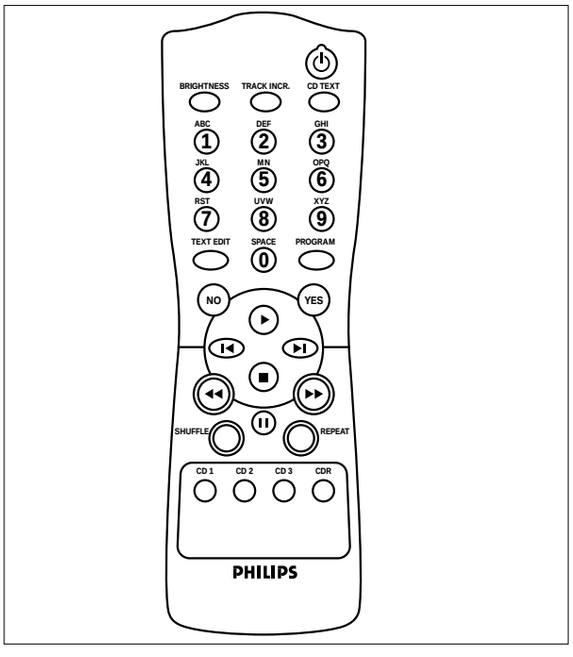
3 Replace the cover.

Note: We recommend you use 2 batteries of the same type and condition.

Batteries contain chemical substances, so they should be disposed of properly.

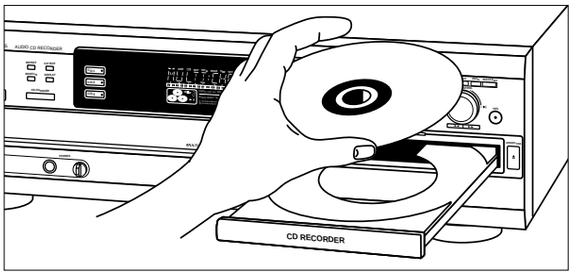
English

Remote control commands



STANDBY ⏻ .....switches to Standby
BRIGHTNESS.....sets the brightness of the display
TRACK INCR(ement) .....selects automatic or manual increase of track numbers during recording
CD TEXT .....activates CD text mode
Number/alphabet keys 0 - 9
.....- selects a track by number
- selects character for text input
TEXT EDIT.....opens Text Edit mode and stores entered text
SPACE.....inserts space duting text input
PROGRAM .....opens/closes program memory
NO .....- deletes tracks from a program
.....- deletes complete program
.....- deletes text in Text Edit mode
YES.....- selects settings in Text Edit and Track Edit mode
.....- stores Text settings
.....- plays selected tracks
.....- programs track numbers
▶ .....starts CD(RW) play
⏮ .....previous track (Play and Program mode)
⏭ .....next track (Play and Program mode)
■ .....stops CD(RW)
◀◀ .....- searches backward
- cursor control in Prog. review mode
▶▶ .....- searches forward
- cursor control in Prog. review mode
II .....interrupts CD(RW) play
SHUFFLE.....plays CDs, CD(RW) or program in random order
REPEAT.....repeat play
CD 1, 2, 3.....selects discs in CD changer
CDR .....selects CD recorder

CD recorder

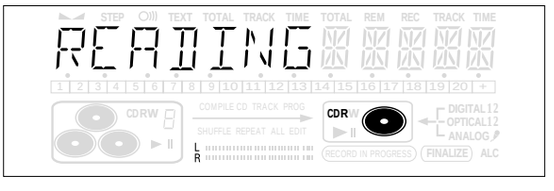


Note:
Only Audio CDs will be accepted in the CD recorder deck If a non-audio disc is inserted, the display shows WRONG DISC.

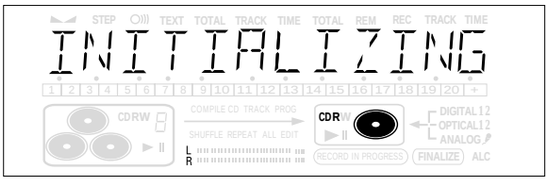
1 Press OPEN/CLOSE to open the disc tray.
➜ OPEN CDR lights up.

2 Insert a CD, CDR or CDRW in the appropriate recess in the tray, label side up.

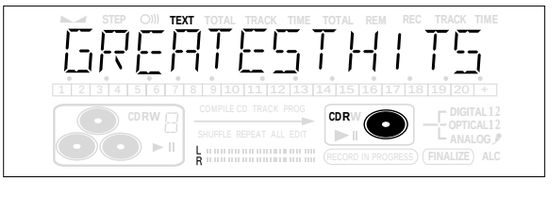
3 Press OPEN/CLOSE to close the tray (see also "Playing").
➜ READING lights up and the display will show the type of disc inserted.



- If a CDR(W) is finalised it will show **CD** on the display.
- If you insert a blank or partly-recorded CDR or unfinalised CDRW, the CD recorder will calibrate the disc for optimum recording. During this process the display will first show READING; INITIALIZING and then the number of audio tracks. Calibration can take up to 25 seconds.



- If CD-text is available the TITLE/ARTIST will scroll by.



IMPORTANT !
For recording it is important that the blank disc is completely free from dust particles or scratches (see CD(RW) handling).

English

CD changer

Note:
Only Audio CDs will be accepted in the CD changer deck If a non-audio disc is inserted, the display shows WRONG DISC.

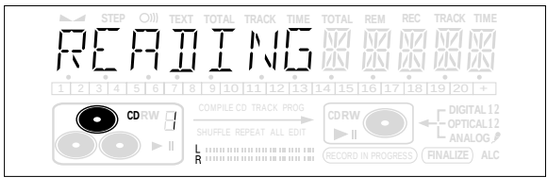
1 Press OPEN/CLOSE to open the disc compartment.
➜ OPEN CDC lights up.

2 Insert CDs in the two outer disc trays, label side up.

• Press CD CHANGE.
➜ The CD carousel tray will rotate until the inner tray is at the right hand side.

3 Insert a CD in the tray, label side up.

4 Press OPEN/CLOSE to close the compartment (see also Playing a CD).
➜ READING lights up and the display will show the type of disc inserted.

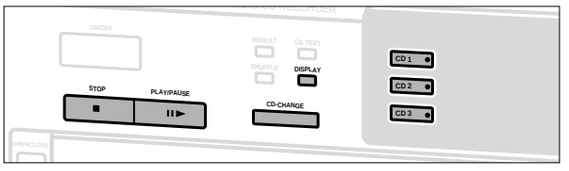


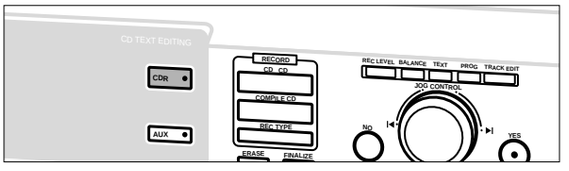
Changing discs during play
1 Press OPEN/CLOSE to open the disc compartment.
➜ OPEN CDC lights up.

2 The CDs in the two outer disc trays can be changed while play continues.

IMPORTMANT!
When an unfinalized disc is inserted reading may take up to 1 minute. READING *will then be displayed, followed by* NOTFINALIZED.

Playing



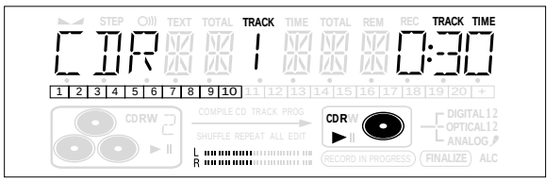


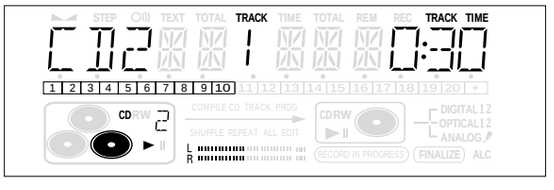
CD recorder
1 Press CDR.
➜ The CDR label lights up.

2 Press PLAY/PAUSE ▶ II to start play.

CD changer
1 Press CD 1, 2 or 3.

2 Press PLAY/PAUSE ▶ II to start play.
➜ Play starts with the first track of the disc in the CD recorder or the selected disc in the changer.
➜ The track number and track time of the track in play appear on the display.





• Press DISPLAY once, twice or three times to see:
➜ remaining track time, total remaining time, permanent CD text.

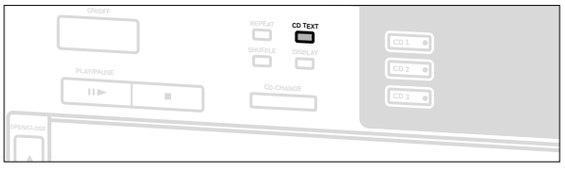
• To interrupt play temporarily, press PLAY/PAUSE ▶ II again.
➜ II lights on the display.

• To continue play, press PLAY/PAUSE ▶ II again.

3 To stop play, press STOP ■.
➜ The number of tracks and the total playing time appear on the display.
➜ After the last track play will stop. If CDC was selected, play will continue with the next disc.

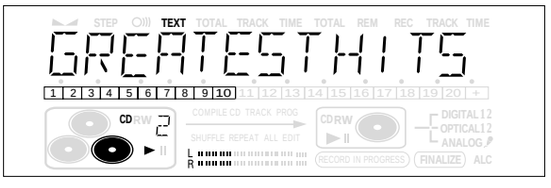
English

CD text



This feature allows the display of information such as album title or track title contained on a specially encoded CD.

- Make sure to insert a CD with CD text.
  ➜ **TEXT** is shown and the album title is scrolled once.



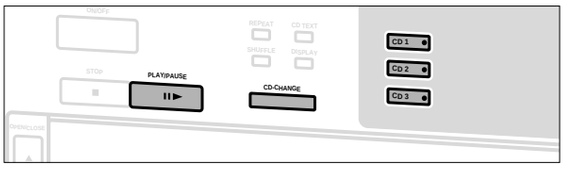
CD text when playback is stopped

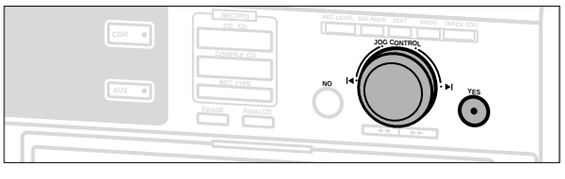
- Press CD TEXT to see the following information, which will be scrolled once (if available):
  – Artist name of album
  – Album title

CD text during playback

- Press CD TEXT to see the following information, which will be scrolled once (if available):
  – Artist name for track (on CD recorder only)
  – Track title

Selecting a disc





Selecting a disc during play

1 Press CD 1, 2 or 3 or CDR to select a particular disc.
➜ Playback is stopped and the new disc is selected.

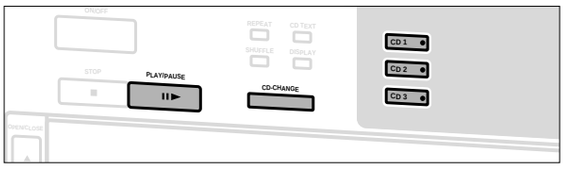
2 Press YES or PLAY/PAUSE ▶ II to start play.

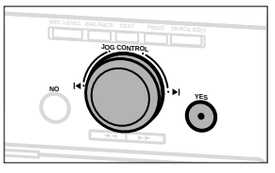
Selecting a CD in STOP mode

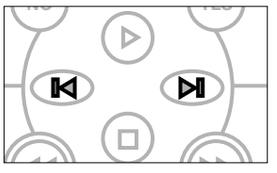
1 Press CD 1, 2 or 3 or CDR to select the required disc number.

2 Press PLAY/PAUSE ▶ II to start play.
➜ Play starts with the first track of the selected disc.

Selecting a track







Selecting a track during play

1 Rotate |◀ JOG CONTROL ▶| until the required track number appears on the display.
➜ Play skips to the beginning of the selected track.

or

Select CDR or CDC (CD 1, 2 or 3) on the remote control and key in the required track number using the numerical keys on the remote control. For 2-digit track numbers, press the keys in rapid succession.
➜ Play skips to the beginning of the selected track.

or

Press |◀ or ▶| on the remote control one or more times.
➜ Play skips to the beginning of the present, previous or subsequent tracks.

Note: For tracks on another disc, first select the required disc by pressing CD 1, CD 2, CD 3 or CDR.

Selecting a track when CD play is stopped

1 Rotate |◀ JOG CONTROL ▶| until the required track number appears on the display.

2 Press PLAY/PAUSE ▶ II or YES to start playing.

or

1 Select CDR or CDC (CD 1, 2 or 3) on the remote control and key in the required track number using the numerical keys.
For 2-digit track numbers, press the keys in rapid succession.

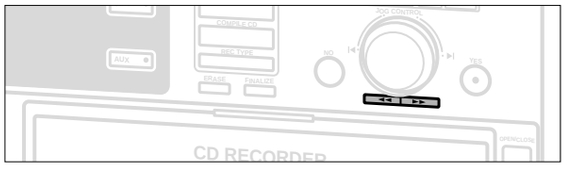
or

1 Briefly press |◀ or ▶| on the remote control one or more times.

2 Start playback by pressing PLAY/PAUSE ▶ II.

English

Search

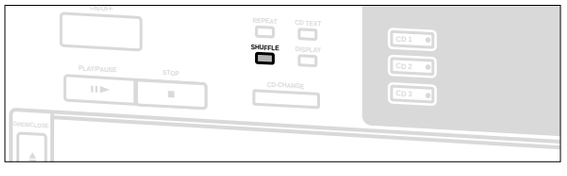


1 Hold down ◄◄ or ►►.
➜ The player first searches backwards or forwards at 10 times normal speed with sound at low volume, then goes to 50 times normal speed with sound muted.

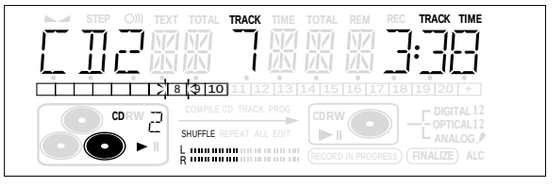
2 Release the button at the desired passage.
➜ Play starts at the desired passage.

Note: During Shuffle, Repeat Track or Programmed play, search is restricted to within the track being played at the time.

Shuffle (random order) play



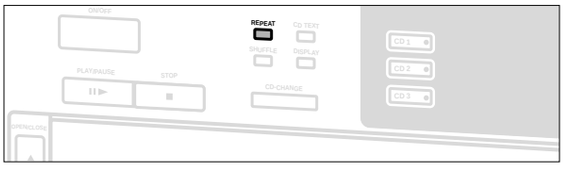
1 Press SHUFFLE before or during CD play to start shuffle play.
➜ The tracks on the CD(RW) in the recorder (**SHUFFLE**), the tracks on the CDs in the changer (**SHUFFLE**) or the tracks in the program (**SHUFFLE PROG**) play in random order.



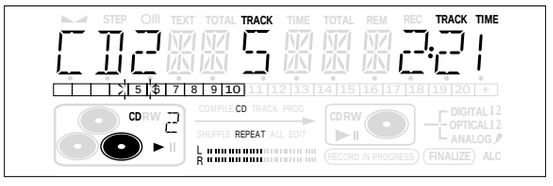
2 Press SHUFFLE again to return to normal CD play.

Note: Shuffle is also cleared if you open the disc tray.

Repeat CD(s), track or program



1 Press REPEAT one or more times during CD play.
➜ When **REPEAT TRACK** lights up, the current track plays repeatedly. When **REPEAT ALL** lights up, the discs in the changer or the program play(s) repeatedly.
When **REPEAT DISC** lights up, the selected disc in the changer or the or the recorder plays repeatedly.

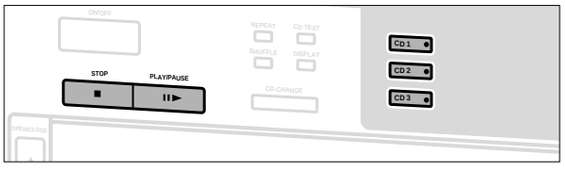


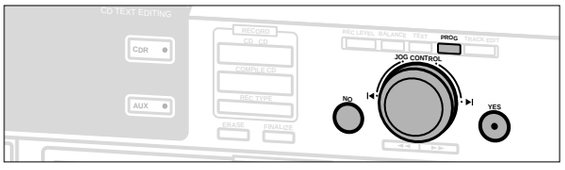
2 To return to normal play, press REPEAT one or more times until:
➜ the **REPEAT** label disappears from the display.

Note:
*– You can use shuffle in combination with **REPAT ALL** or programmed play of the CD Changer.*
*– **REPEAT** is also cleared if you open the disc tray.*

English

Programming track numbers





You can select tracks and store them either in the CD changer, or CD recorder memory. If you use the program for playback you can choose one of the two memories, else if you like to specify tracks for recording, use the CD changer memory only! You can store any track more than once.

1 Load the desired disc(s) in the disc tray(s).

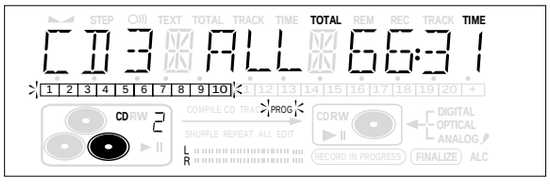
2 Press either CD 1, CD 2, CD 3, or CDR to select the disc.

3 Press PROG(ram).
➜ **PROG** starts blinking and PROGRAM is displayed.

4 Rotate ⏮ JOG CONTROL ⏭ (press the numerical keys on the remote control; for 2-digit numbers, press the keys in rapid succession) to select the required track numbers and store each track by pressing YES.
➜ The number of programmed tracks (**STEP**), PROG and the total program time are displayed.

CD changer only

- If you wish to program a complete CD from the CD Changer rotate ⏮ JOG CONTROL ⏭ to select CD1 (or 2, 3) ALL and press YES.
➜ All tracks of CD 1 (or 2, 3) will be programmed.



5 Press PROG(ram) to end programming.
➜ **PROG** stays shown and the program is currently available.

Note: If the maximum number of programmable tracks is reached, the display shows PROGRAM FULL.

Erasing a track from the program

1 If necessary press STOP ■.

2 Press either CD 1, CD 2, CD 3, or CDR to select the desired memory.

3 Press PROG(ram), followed by ◀◀ or ▶▶ to move through the program steps.
➜ The track number at the selected step and the total program time are displayed.

4 Press NO to remove the track from the program.
➜ CLEARED is displayed briefly.
➜ The next programmed track number will move up to this position and is displayed together with the step number and the remaining total program time.

Clearing the program

1 If necessary press STOP ■.

2 Press NO.
➜ CLEAR PROG ? is displayed.

3 Press YES to clear the program.
➜ PROG CLEARED will be displayed and **PROG** goes off.

Note: If you open the CD recorder or the CD changer tray the respective program will be cleared.

Making a program for recording

See ‘High speed recording and automatic finalizing (optional) of the current program’ under chapter ‘Internal recording’.

RECORDING GENERAL

English

Basic information

We will describe:
– **Digital recording from internal CDC** (fast or normal recording).
– **Recording from external CD player:**
  – Digital
  – Digital (synchronized start with external CD player)
  – Analog
– **Finalizing discs:**
  Finalizing a CDR(W) disc is a simple procedure, necessary to:
  – play a recorded CDR on a standard CD player
  – play a recorded CDRW on a CDRW compatible CD player

• The recording procedure is the same for CDR and CDRW discs. ***Make sure that the CDR(W) is absolutely free of scratches and dust particles.***

• It is advisable to use a CDRW disc for your first try.

• If the disc already contains recordings, the CD recorder will automatically search for the end of the last track, so that recording can start from there.

• For recordings, the minimum track length is 4 seconds. You can record up to a maximum of 99 tracks on a disc. The minimum of recording time left on the disc is 7 seconds. Else, NOT FITTING is displayed and you cannot enter into the record standby mode.

• When you try to record a copy protected material from an external source, COPY PROTECT will be displayed. No further digital recording is possible then.

• The **Serial Copy Management System** (SCMS) only allows digital recording under specific conditions:
  – This means that it is not possible to make a digital copy from a digital copy.
  – Analog recording is always possible !
  – The number of recordings from the original is unlimited.

• Recordings from DAT or DCC players will not always stop automatically.

Important:

If you want to play the recorded CDR disc on any regular CD player, it must first be finalised. See finalising discs.

Finalised CDRW discs play only on CDRW compatible CD players.

For recording from external CD changers do not use AUX MANUAL***, but*** AUX TRACK ***or*** AUX CD***.***

Direct Line Recording (DLR)

The CD recorder is equipped with the high-performance **D**irect **L**ine **R**ecording technique. It ensures a perfect recording of the source material, meaning a true “bit for bit” recording. DLR will always become active, when you make normal recordings in listen mode as well as in double speed mode.

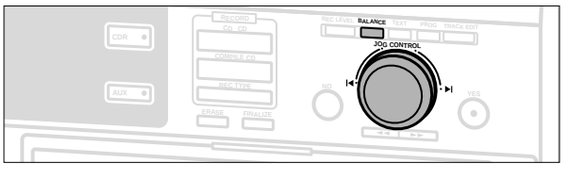
Auto Level Control (ALC)

Auto **L**evel **C**ontrol ensures that the tracks on the recorded disc have a similar volume level. Always the already recorded tracks of the CDR(W) disc will be taken as reference for the volume level of the following recordings. ALC is active, when **ALC** is shown.

Auto level control becomes active, when:
– COMPILE CD is being used,
– a disc, a track or a track edit (A-B) is being high speed recorded,
– a program from the CD changer is being high speed recorded.

Auto level control will not become active, when:
– CD→CD is being used for an empty CDR(W),
– making recordings from an external source, or
– making normal recordings in listen mode.

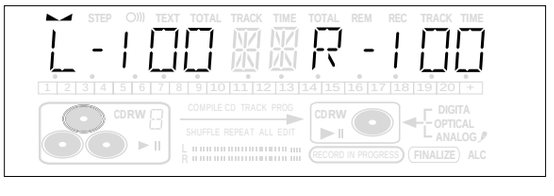
BALANCE key



You can set the reference record balance for both digital and analog recordings.

1 Keep BALANCE on the set pressed to enable the ⏮ JOG CONTROL ⏭ to set the BALANCE.

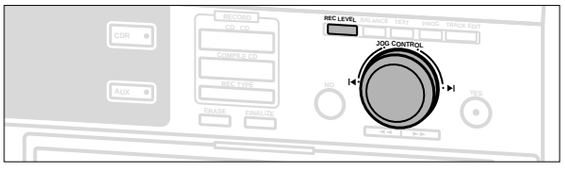
2 Rotate the ⏮ JOG CONTROL ⏭ to set the desired balance.
➜ The set balance will be displayed.



• The balance is reset after the set has been switched to standby.

English

REC LEVEL key

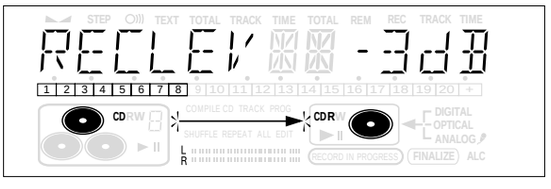


You can adjust the reference record level for both digital and analog recordings. This is also possible when ALC is active. This feature can be used for fading your recordings in or out.

1 Select the required recording mode (see Recording modes).

2 Keep REC LEVEL on the set pressed to enable the ⏮ JOG CONTROL ⏭ to adjust the record level.

3 Rotate the ⏮ JOG CONTROL ⏭ to the left to adjust the desired record level.
➜ The actual record level (in dB) will be displayed.



• The record level is reset after the set has been switched to standby.

Remarks on recording

– During high speed recording, the original recording quality will be maintained.
– When Auto Track is on (default setting), track numbers will automatically be increased during recording.
– If a finalised CDR disc is inserted in the CD recorder and CD→CD is pressed, FINALIZED CD will be displayed. Recording is not possible.
– If a finalised CDRW disc is inserted in the CD recorder and REC TYPE is pressed, UNFINALIZE ? will be displayed. If YES is pressed, the disc will be unfinalised.

Note: If during recording ANALOG REC appears, the track is copy protected and will be recorded as analog, at normal speed. All other tracks will be copied normally (at double speed).

***Warning:** No more recording possible after finalizing CDR discs!*

Recording modes

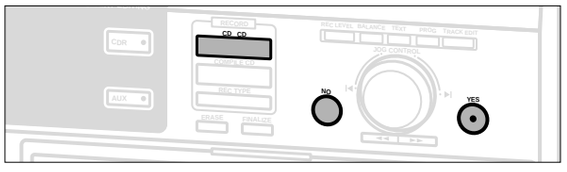
For recording from the internal CD Changer-deck you can choose following recording modes:

– **High speed recording and automatic finalizing:**
Fast and easy! Record and finalize your CDR(W) in one quick step while the sound is muted. You can record:
– the current CD *(CD →CD);*
– a program *(COMPILE CD).*
– **High speed recording** (REC TYPE)**:**
Record your CDR(W) fast while the sound is muted.
You can record:
– an entire CD *(CD FAST)*;
– a track *(TRACK FAST)*,'
– a program *(COMPILE CD/ PROG FAST);*
– a track edit *(AB FAST)*.
– **Normal recording and listening** (REC TYPE)**:**
Listen to the recording while you are making it.
You can record:
– an entire CD *(CD LISTEN)*;
– a track *(TRACK LISTEN)*;
– a program *(PROG LISTEN);*
– a track edit *(AB LISTEN).*
– **Microphone recording:**
Mix sound from the internal CD Changer with microphone input *(CD MIX MIC)*.

English

High speed recording and automatic finalizing

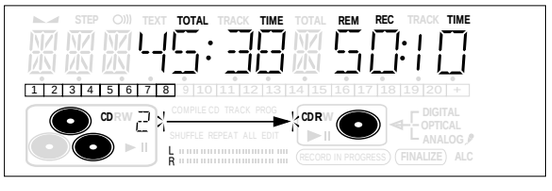
High speed recording and automatic finalizing of the current disc



Notes:
– *During High Speed recording, the Pause function is not operative.*
– *Copy prohibited tracks will be copied analog.* ANALOG REC *is displayed.*
– *During High Speed recording, the sound is not audible.*
– *When the CDR(W) already contains a recording the ALC function will become active.* **ALC** *then lights up on the display.*
– *If required the recording level can be set first, using the REC LEVEL key. See "Rec Level key" under "Recording General".*

1 Make sure that the CDR(W) is absolutely free of scratches and dust particles.

2 Press CD→CD to enter into the record mode.
➜ Both decks will be selected in the display, the arrow and the YES key start blinking. The remaining recording time of the CDR(W), the total playing time of the source CD and RECORD CD1 (or 2, 3) ? are displayed.



3 Press YES to start recording and finalizing.
➜ The arrow lights, **RECORDING IN PROGRESS** and **FINALIZE** are shown, high speed recording and finalizing start and the actual recording time left starts to count down.

• To check the elapsed recording time, press DISPLAY. This can be done during recording.

• Recording will stop automatically.

4 To stop recording manually, press STOP ■.

• If STOP was pressed within 3 seconds after YES, no recording will take place.

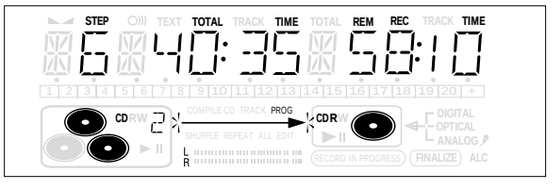
Note: If a program was already available before pressing CD → CD, this will be ignored. **PROG** *goes off and the current disc will be recorded. After finishing the recording,* **PROG** *is shown and the program is available again.*

High speed recording and automatic finalizing (optional) of the current program

1 Make sure that the CDR(W) is absolutely free of scratches and dust particles.

2 Select and store all desired tracks in the CD changer memory (see "Programming track numbers").

2 Press COMPILE CD to enter into the record mode.
➜ Both decks will be selected in the display, the arrow starts blinking. The remaining recording time of the CDR(W), the total playing time of the program and RECORD PROG ? are displayed.



• If the total time of the program is of bigger size than the remaining recording time of the CDR(W):
➜ NOT FITTING ! will be displayed briefly, followed by the remaining recording time and RECORD PROG ?
If you still start recording, only the tracks of the program that fit onto the CDR(W) will be recorded.

3 Press either:
NO to change the program.
➜ **PROG** starts blinking. Now you can change the program (see "Program") and return to the record mode by pressing COMPILE CD.

or

YES to confirm recording.
➜ AUTO FIN ? is displayed.

4 Press either:
YES, if the CDR(W) shall be finalized after recording,

or

NO, if the CDR(W) shall not be finalized after recording.

➜ The recording process starts. The arrow lights, **RECORDING IN PROGRESS** is shown, high speed recording and **FINALIZE** (if selected) start and the actual recording time left starts to count down.

• To check the elapsed recording time, press DISPLAY. This can be done during recording.

• Recording will stop automatically.

5 To stop recording manually, press STOP ■.

• If STOP was pressed within 3 seconds after YES, no recording will take place.

Note:
If no program is available and you press COMPILE CD, you enter immediately into the program menu. Start your programming and return to the record mode by pressing PROGRAM or COMPILE CD.

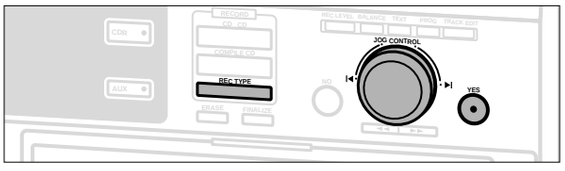
Important:
If you want to play the recorded CDR disc on any regular CD player, it must first be finalised. See 'Finalising discs'.

Finalised CDRW discs play only on CDRW compatible CD players.

English

High speed recording

High speed recording of an entire disc, a track, a program or a track edit



1 Make sure that the CDR(W) is absolutely free of scratches and dust particles.

2 Press either CD 1, CD 2 or CD 3 to select the disc you wish to record from.

3 Press REC TYPE on the set to enter into the recording menu.

4 Rotate ⏮ JOG CONTROL ⏭ to select one of the following high speed record modes:

If a disc from the CD changer is selected:

➜ CD FAST ?: for high speed recording of an entire disc.
- Continue with step **5**.

➜ TRACK FAST ?: for high speed recording of a track.
- Press YES to confirm.
- Rotate ⏮ JOG CONTROL ⏭ to select the track.

➜ REC TR ? and the tracknumber is displayed.
- Continue with step **6**.

If CD changer program mode is available:

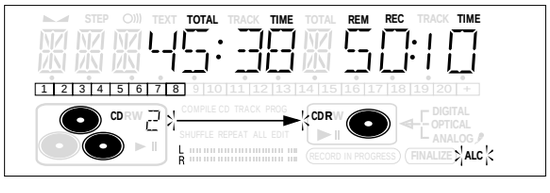
➜ PROG FAST ?: for high speed recording of the selected disc or of the program.

If CD changer track edit mode is available:

➜ A-B FAST ?: for high speed recording of the A–B track.

5 Press YES to confirm your selection.

➜ Both decks will be selected in the display, the arrow starts blinking. The remaining recording time of the CDR(W), the total recording time of the CDR(W) and either RECORD CD1 (or 2, 3)?, RECORD PROG ? or RECORD A-B ? is displayed.



6 Press YES to start high speed recording.

➜ The arrow lights, **RECORDING IN PROGRESS** is shown, high speed recording starts and the actual recording time left starts to count down.

- To check the elapsed recording time, press DISPLAY. This can be done during recording.
- Recording will stop automatically.
- To stop recording manually, press STOP ■.
- If STOP was pressed within 3 seconds after YES, no recording will take place.

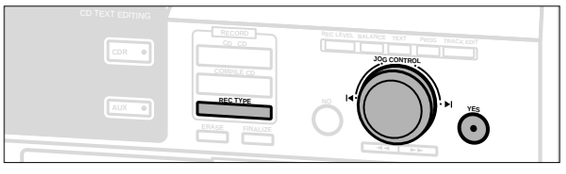
Important:

If you want to play the recorded CDR disc on any regular CD player, it must first be finalised. See 'Finalising discs'.

Finalised CDRW discs play only on CDRW compatible CD players.

Normal speed recording and listening

Normal recording and listening of an entire disc, a track, a program or a track edit



1 Make sure that the CDR(W) is absolutely free of scratches and dust particles.

2 Follow step **2** and **3** of "High speed recording".

3 Rotate ⏮ JOG CONTROL ⏭ to select one of the following normal record options:

If CD changer is selected:

➜ CD LISTEN ?: for listening to the entire disc during normal recording
- Follow step **5** and **6** of "High speed recording".

➜ TRACK LISTEN ?: for listening to the track during normal recording
- Press YES to confirm.
- Rotate ⏮ JOG CONTROL ⏭ to select the desired track.

➜ REC TR ? and the tracknumber is displayed.
- Continue with step **6** of "High speed recording".

If CD changer program mode is available:

➜ PROG LISTEN ?: for listening to the program during normal recording

If CD changer track edit mode is available:

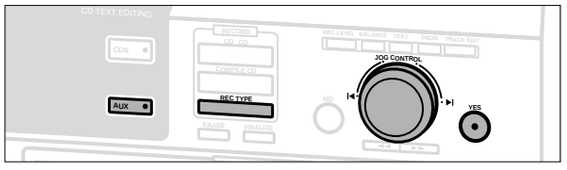
➜ A-B LISTEN ?: for listening to the A–B track during normal recording

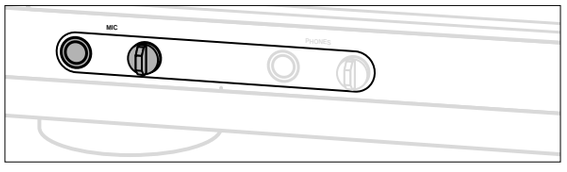
4 Follow step **5** and **6** of "High speed recording".

Note: If required the recording level can be set first, using the REC LEVEL key. See "Rec Level key" under "Recording General".

English

Microphone recording





1 Make sure that the CDR(W) is absolutely free of scratches and dust particles.

2 Set MIC LEVEL to the minimum level to prevent acoustic feedback (e.g. a loud howling sound) before you connect the microphone.

3 Connect a microphone to MIC.

4 Press CD 1, CD 2 or CD 3 to select the disc you wish to mix the microphone with.

5 Press REC TYPE on the set to enter into the recording menu.

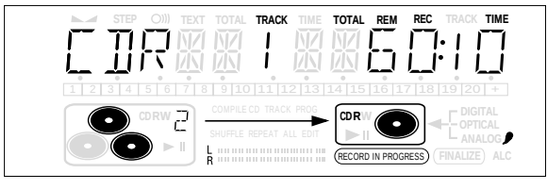
6 Rotate ⏮ JOG CONTROL ⏭ to select the manual record mode for the microphone:
➜ `CD MIX MIC` is displayed.

7 Press YES to confirm.
➜ `WAIT` is displayed.
➜ `RECORD ?` is displayed.

8 Press YES to confirm.
➜ Recording is started

10 Press PLAY/PAUSE ⏯ ▶ to start playback.

11 Rotate ⏮ JOG CONTROL ⏭ to select the desired track.
➜ The selected source is mixed to the microphone.



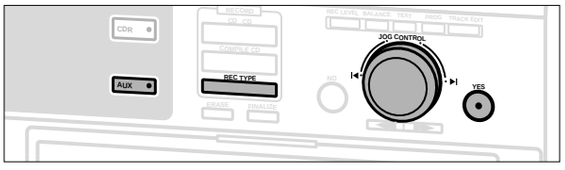
12 Press STOP ■ to stop recording.

- To perform microphone recording only see “Manual recording” of the chapter “External recording”.

Note: The set is standard adjusted for a mono microphone. If you wish to use a stereo microphone, press AUX for more than 5 seconds. The set will display `MONO ?`. *Press NO to select* `STEREO` *or YES to select* `MONO`. `STEREO MIC` *or* `MONO MIC` *will be displayed.*

English

Analog or digital recording



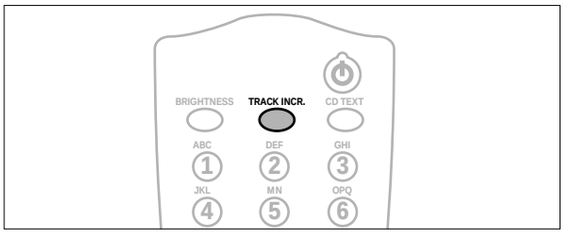
When making recordings from an external source, we recommend to do analog recording only if digital recording is not possible. Digital recording will usually result in better sound quality.

Recording modes

For external recording you can choose following recording modes:

– *AUX CD* - to make an automatic recording of an external source simply by starting the source.
– *AUX TRACK* - to make an automatic recording of a single track from an external source simply by starting the source.
– *AUX MANUAL* - to start a manual recording from an external source.
– *AUX MIX MIC* - to start a mixed recording of microphone and external source input.
– *MIC ONLY* - manual start of microphone recording.

Automatic track increment



In recording mode tracks will be incremented automatically such that the track numbers are positioned on the same position as the original.

- Press as often as necessary TRACK INCREMENT on the remote control during stop when CDR is selected to switch the automatic track increment function on.
  ➜ AUTO TR ON is displayed and the function is switched on. Track increments are now automatically detected from digital source material. In analog source material a silence of 2.7 seconds or more is detected as a track increment.
- Press as often as necessary TRACK INCREMENT on the remote control during stop when CDR is selected to switch the automatic track increment function off.
  ➜ AUTO TR OFF is displayed and the function is switched off. Track numbers can now be incremented manually by pressing TRACK INCREMENT on the remote control during recording. The minimum track length is 4 seconds.

Notes:

– Track numbers cannot be changed after recording.
– The automatic track increment only works with consumer sources with a digital output signal according to the IEC 958 (consumer part) audio standard. DAT, DVD and DCC do not deliver this signal.

English

Recording with automatic synchronized start

Recording of an entire disc or a track with automatic start

Important:
– *Recording from CD-changers should always be started in the Auto-Start mode.*
– *For recording from external CD changers do not use* AUX MANUAL*, but* AUX TRACK *or* AUX CD*.*

1 Make sure that the CDR(W) is absolutely free of scratches and dust particles.

2 Press repeatedly AUX to select the input for the external source you want to record from.
➜ AUX DIGITAL is displayed if the digital coaxial input is selected.
➜ AUX OPTICAL is displayed if the digital optical input is selected.
➜ AUX ANALOG is displayed if the analogue input is selected.

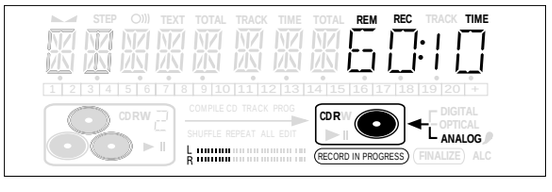
3 Press REC TYPE on the set to enter into the recording menu.

4 Rotate ⏮ JOG CONTROL ⏭ to select either:
➜ AUX CD ?: for recording with synchronised start of an entire disc
➜ AUX TRACK ?: for recording with synchronised start of a track

5 Press YES to confirm your selection.
➜ WAIT is displayed for a few seconds.
➜ START SOURCE is shown.

Notes:
– *If* CHECK INPUT *is flashing, check the digital connection.*
– *If required the recording level can be set first, using the REC LEVEL key. See "Rec Level key" under "Recording General".*

6 Start playback on the selected source.
➜ The CD recorder starts to record simultaneously and recording in progress is shown. The remaining recording time left of the CDR(W) is displayed.



Note: If you start playback on the selected source within a track, recording starts at the beginning of the next track or after 2.7 seconds of silence in analogue recordings.

7 ***If a digital source is selected:***
After the recording process, the CD recorder stops automatically.

Note: Recordings from DAT or DCC will automatically stop after 20 seconds silence.

If an analogue source is selected:
After the recording process, the CD recorder stops after a silence of 20 seconds on the source material.

• To stop recording manually, press STOP ■ on the set.
➜ **RECORDING IN PROGRESS** goes off.

Important:

If you want to play the recorded CDR disc on any regular CD player, it must first be finalised. See finalising discs.

Finalised CDRW discs play only on CDRW compatible CD players.

English

Manual recording

Manual recording from an external source

1 Make sure that the CDR(W) is absolutely free of scratches and dust particles.

2 Press repeatedly AUX to select the input for the external source you want to record from.
- ➜ AUX DIGITAL is displayed if the digital coaxial input is selected.
- ➜ AUX OPTICAL is displayed if the digital optical input is selected.
- ➜ AUX ANALOG is displayed if the analogue input is selected.

3 Press REC TYPE on the set to enter into the recording menu.

4 Rotate I◄ JOG CONTROL ►I to select the record type.
- ➜ AUX MANUAL ?: for manual start of recording

5 Press YES to confirm your selection.
- ➜ WAIT is displayed.
- ➜ RECORD ?, AUX and the remaining recording time of the CDR(W) are displayed.

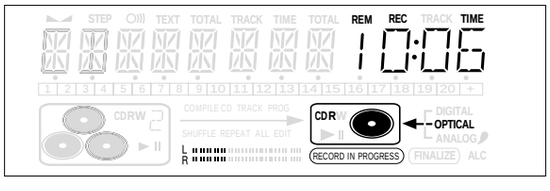
6 Start playback on the external source in order to set the optimal recording level on the CD recorder (see “REC LEVEL key”).

Note: If CHECK INPUT is flashing, check the digital connection.

7 Stop playback on the external source.

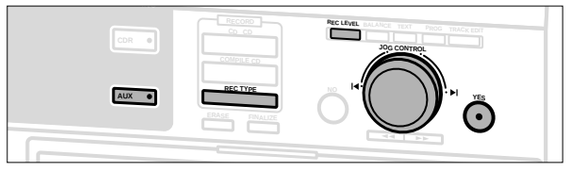
8 Go to the beginning of the desired track.

9 Press YES on the set and simultaneously start playback on the external source.
- ➜ The CD recorder starts to record and recording in progress is shown. The remaining recording time left of the CDR(W) is displayed.



10 Press STOP ■ on the set to stop recording.
- ➜ UPDATE is displayed and **RECORDING IN PROGRESS** goes off.

Manual microphone recording



1 Make sure that the CDR(W) is absolutely free of scratches and dust particles.

2 Set MIC LEVEL to the minimum level to prevent acoustic feedback (e.g. a loud howling sound) before you connect the microphone.

3 Connect a microphone to MIC.

4 Press repeatedly AUX to select the input for the external source you wish to mix the microphone with.

5 Press REC TYPE on the set to enter into the recording menu.

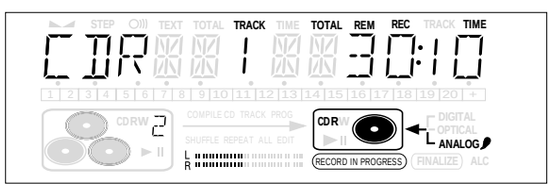
6 Rotate I◄ JOG CONTROL ►I to select the record type:
- ➜ AUX MIX MIC: the microphone is mixed to the external source.
- ➜ MIC ONLY: only the microphone is recorded.

7 Press YES to confirm your selection.
- ➜ WAIT is displayed.
- ➜ RECORD ?, AUX and the remaining recording time of the CDR(W) are displayed.

8 Set the optimal recording level on the CD recorder (see “REC LEVEL key”).

- In addition you can also set the optimal recoding level of the microphone by turning MIC LEVEL.

9 ***If*** AUX MIX MIC ***is selected:***
Press YES on the set and simultaneously start playback on the external source.
- ➜ The CD recorder starts to record and recording in progress is shown. The remaining recording time left of the CDR(W) is displayed.



If MIC ONLY ***is selected:***
Press YES on the set to start recording.
- ➜ The CD recorder starts to record and **RECORDING IN PROGRESS** is shown. The remaining recording time left of the CDR(W) is displayed.

10 Press STOP ■ on the set to stop recording.
- ➜ UPDATE is displayed and **RECORDING IN PROGRESS** goes off.

English

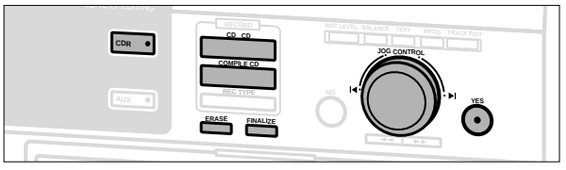
Note: The set is standard adjusted for a mono microphone. If you wish to use a stereo microphone, press AUX for more than 5 seconds. The set will display MONO ? *. Press NO to select* STEREO *or YES to select* MONO. STEREO MIC *or* MONO MIC *will be displayed.*

Important:

If you want to play the recorded CDR disc on any regular CD player, it must first be finalised. See finalising discs.

Finalised CDRW discs play only on CDRW compatible CD players.

Finalising CDR & CDRW discs



Finalizing a CDR(W) disc is a simple procedure, necessary to:
- play a recorded CDR on a standard CD player
- play a recorded CDRW on a CDRW compatible CD player and CD recorder
- avoid further unwanted recordings on a disc
- avoid erasure of tracks on a CDRW

Notes:
- *Finalizing will take about 2–4 minutes.*
- *After finalization of the CDR(W),* **CDR(W)** *changes to* **CD** *on the display.*
- *During finalization no other operating commands can be executed.*

Auto finalizing

When you use either CD→CD or COMPILE CD, your recordings will be finalized automatically (see.“High speed recording and automatic finalizing”).

Manual finalizing when recording is in progress

1 Press FINALIZE on the set during recording.
➜ AUTO FINAL ? is displayed.

2 Press YES to confirm.
➜ **FINALIZE** is shown. The finalization will start after recording and the actual finalizing time left will start to count down.

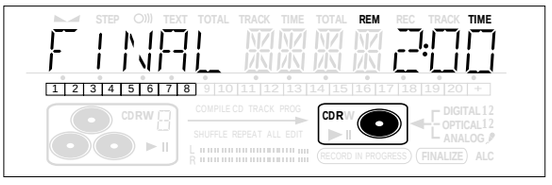
Manual finalizing when recording is stopped

1 Insert the CDR(W) you want to finalize in the CD recorder tray.

2 Press CDR to select the CD recorder.

3 Press FINALIZE on the set.
➜ FINALIZE ? is displayed.

4 Press YES to start finalizing.
➜ **FINALIZE** is shown, FINAL is displayed and the actual finalizing time left starts to count down.



English

Unfinalising CDRW discs

If you want to record (or erase) on (from) an finalized CDRW, you have to unfinalize it first.

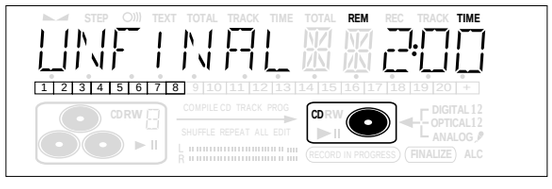
Notes:
– Unfinalizing will take approximately 2 minutes.
– After unfinalizing of the CDRW, **CD** *changes to* **CDRW** *on the display.*
– When unfinalizing a CDRW with CD text on it available, this text will be transferred to the CD recorder memory. In case the memory is full, you have to erase text (see "Erasing text") or to finalize another disc first in order to obtain memory space.

1 Insert the CDRW you want to unfinalize in the CD recorder tray.

2 Press CDR to select the CD recorder.

3 Press FINALIZE on the set.
➜ UNFINALIZE ? is displayed.

4 Press YES to start unfinalizing.
➜ UNFINAL is displayed and the operation time left starts to count down.


UNFINAL 2:00
STEP TEXT TOTAL TRACK TIME TOTAL REM REC TRACK TIME
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 +
CDRW
COMPILE CD TRACK PROG
SHUFFLE REPEAT ALL EDIT
RECORD IN PROGRESS
FINALIZE
ALC
DIGITAL 12
OPTICAL 12
ANALOG

Erasing from a CDRW disc

It is possible to erase one or more tracks (starting from the end of the last track) or the entire CDRW.

Erasing an entire CDRW

1 Insert the CDRW you want to erase in the CD recorder tray.

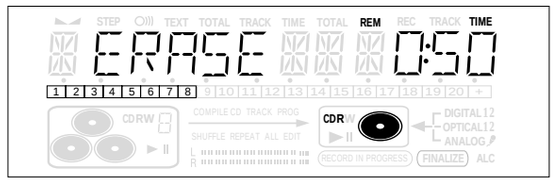
2 Press CDR to select the CD recorder.

3 Press ERASE to enter into the erasing menu.

4 Rotate ⏮ JOG CONTROL ⏭ to select:
➜ ERASE DISC ?: for erasing the entire disc.

5 Press YES to confirm your selection.
➜ ERASE ? and the total number of tracks to be erased are displayed. All track numbers are blinking in the music calendar.

6 Press YES to start erasing.
➜ ERASE is displayed and the operation time left starts to count down. The track number of the actual erased track will go off in the music calendar.


ERASE 0:50
STEP TEXT TOTAL TRACK TIME TOTAL REM REC TRACK TIME
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 +
CDRW
COMPILE CD TRACK PROG
SHUFFLE REPEAT ALL EDIT
RECORD IN PROGRESS
FINALIZE
ALC
DIGITAL 12
OPTICAL 12
ANALOG

Erasing one or more tracks

1 Insert the CDRW you want to erase from in the CD recorder tray.

2 Press CDR to select the CD recorder.

3 Press ERASE to enter into the erasing menu.

4 Rotate ⏮ JOG CONTROL ⏭ to select the track number(s) you wish to erase:
➜ ERASE and the track number (e.g. 10 +) are displayed.

• To select more tracks to be erased repeat step **4**.

Note: When erasing more tracks, the tracks to be erased must be selected in sequence, starting from the last recorded track. Example: The CDRW has 5 tracks recorded on it. Now, you can erase track 5 and 4. You can also erase track 5, 4 and 3, however you cannot erase track 5 and 3!

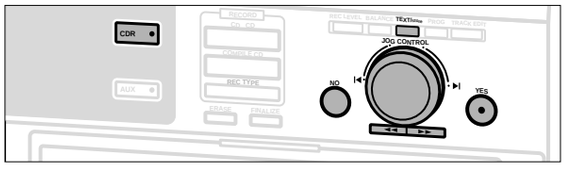
➜ All track numbers selected for erasing are blinking in the music calendar. The remaining track numbers light up.

5 Press YES to confirm your selection.
➜ ERASE ? is displayed.

6 Press YES to start erasing.
➜ ERASE is displayed and the operation time left starts to count down. The track number of the currently erased track will go off in the music calendar.

English

Text edit (on CD recorder only)



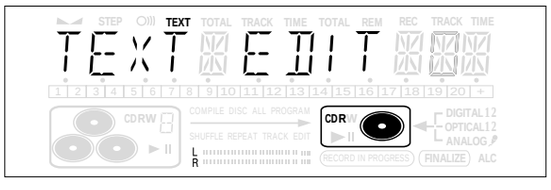
After you have recorded your CDR(W), the TEXT EDIT feature allows you to give names to to discs and tracks. Disc and track names will be displayed during playback. All names will be stored in the memory and can be called up and changed at any time.
A maximum of 60 characters per item can be stored.
The following items can be selected:
ALBUM ARTIST: for editing the CD artist.
ALBUM TITLE: for editing the CD title.
ARTIST TR(ack): for editing the artist of track 1, 2, 3, etc.
TITLE TR(ack): for editing the title of track 1, 2, 3, etc.

Storing text during STOP mode

1 If necessary press STOP ■.

2 Press CDR to select the CD recorder.

3 Press TEXT/store to enter into the text edit menu.
➜ **TEXT** lights up and TEXT EDIT is displayed.



4 Press YES to confirm.

5 Rotate ⏮ JOG CONTROL ⏭ to select either:
➜ ALBUM ARTIST.
➜ ALBUM TITLE
➜ ARTIST TR 1 or (2, 3,…): for editing the artist of track 1 or (2, 3,…).
➜ TITLE TR 1 or (2, 3,…): for editing the title of track 1 or (2, 3,…).

6 Press YES to confirm the selection.

7 Rotate ⏮ JOG CONTROL ⏭ (press the alphabet keys on the remote control) to select a character.

8 Press YES to confirm the selection.
➜ The cursor moves to the next character space.

9 Repeat steps **7** and **8** for adding further characters.

10 Press TEXT/store to save the characters that have been selected and to exit to the last position in the text editing menu.
➜ UPDATE is displayed.

Storing text during recording

You can store and edit text even while recording a single track or single CD, or when recording from an external source. Editing text during finalizing is not possible. Make sure, when using high speed recording and automatic finalizing, to enter the text before finalizing starts, otherwise automatic finalizing will be cancelled.

• Follow steps **3**–**10** of “Storing text during stop mode”.

Note: Editing text is not possible when a copy protected track is analogue recorded. Editing is stopped, "CD TEXT SAVED" is displayed and your text is saved for later editing."

Auto copied text

When an artists name has been stored for a track, it will be copied automatically into the next track.

• Press either:
TEXT/store to confirm the copied text.
or
NO to delete the copied text and to enter a new one.

Inserting a space

1 Press ◀◀ or ▶▶ to move to the position where the space is to be inserted.
➜ The position starts blinking.

2 Press YES to confirm the position of the insert character.
➜ A space will be inserted, text will move to the right.

• You can also use the SPACE button on the remote control to insert a space.

Deleting and substituting a character

1 Press ◀◀ or ▶▶ to move to the characters position to be deleted or substituted.
➜ The character starts blinking.

If you want to delete the character:

2 Press NO.
➜ The character is deleted and the text is shifted one position to the left.

If you want to substitute the character:

2 Rotate ⏮ JOG CONTROL ⏭ (press the alphabet keys on the remote control) to select a new character.
Press YES to confirm the selection.

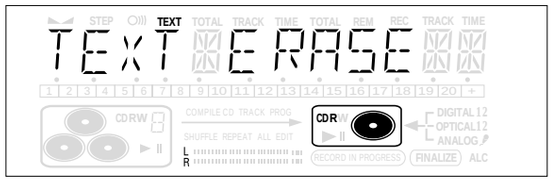
• To change another character press ◀◀ or ▶▶.

English

Erasing text

1 Press TEXT/store to enter into the text edit menu.
➜ **TEXT** lights up and TEXT EDIT is displayed.

2 Rotate I◀ JOG CONTROL ▶I to select the text erase menu.
➜ TEXT ERASE is displayed.



3 Press YES to confirm.

4 Rotate I◀ JOG CONTROL ▶I to select either:
➜ ALL TEXT: All text of the selected disc is chosen to be erased in one step.
➜ ALBUM ARTIST: CD artists name is chosen to be erased.
➜ ALBUM TITLE: CD title is chosen to be erased.
➜ ARTIST TR 1 or (2, 3,…): artists name of track 1 or (2, 3,…) is chosen to be erased.
➜ TITLE TR 1 or (2, 3,…): title of track 1 or (2, 3,…) is chosen to be erased.

5 Press YES to confirm your selection.
➜ ERASE ? or ERASE ALL ? is displayed.

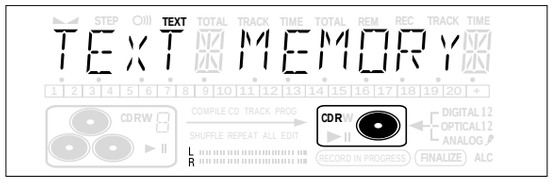
6 Press YES to start erasing.
➜ UPDATE is displayed and the chosen text is erased.

Erasing from the memory

When the text memory of your CD recorder is full, the messages MEMORY FULL and FINALIZE DISC will be displayed. If you still want to add a new disc to the text memory, you have either to erase another disc from the memory or you have to finalize another disc.

1 Press TEXT/store to enter into the text edit menu.
➜ **TEXT** lights up and TEXT EDIT is displayed.

2 Rotate í JOG CONTROL ë to select the memory view menu.
➜ TEXT MEMORY is displayed.



3 Press YES to confirm.

4 Rotate I◀ JOG CONTROL ▶I to select the disc you wish to erase from the text memory.

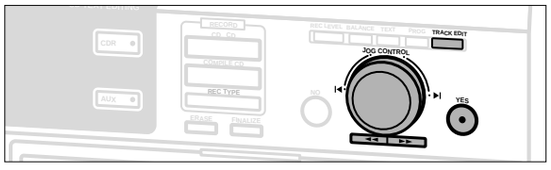
5 Press YES to confirm.
➜ ERASE MEMORY is displayed.

6 Press YES to confirm the text erasure of that particular disc.

Note: If there are no discs in the text memory stored MEMORY EMPTY *will be displayed.*

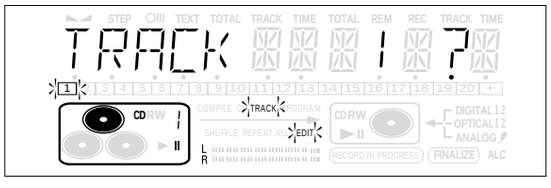
English

Track editing (on CD changer only)



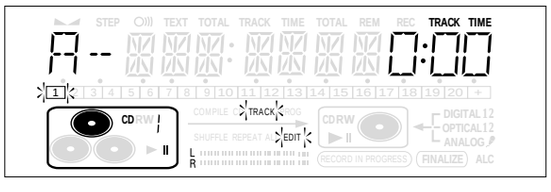
You can create a “track” by marking a passage of music within one track on the current disc. This new “track” can be used for recording or playing. The minimum track length is 4 seconds.

1 Press TRACK EDIT on the set.
➜ **TRACK EDIT** starts blinking, TRACK and the current track number 7 are displayed. The current track number is also blinking in the track bar.



2 Rotate ⏮ JOG CONTROL ⏭ until the desired track number is displayed.

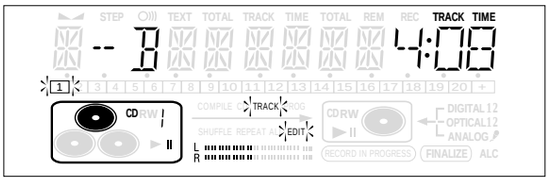
3 Press YES to confirm the selected track.
➜ The marker position A and the track time will be displayed. The first 4 seconds of the track will be played continously.



4 Press PLAY/PAUSE ▶ II on the set to play to the desired start position of your new “track” (the initial position of marker A is always the start of the chosen track).

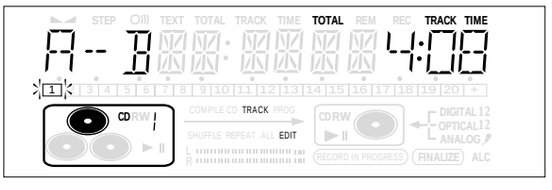
- To fast forward to the desired start position press ◀◀ or ▶▶ on the set.
- To fine tune the position press first PLAY/PAUSE ▶ II on the set, then rotate ⏮ JOG CONTROL ⏭.

5 Press YES to confirm the position of marker A.
➜ The marker position B and the new “track” time will be displayed. The first 4 seconds before marker position B until marker position B will be played continously.



6 Press PLAY/PAUSE ▶ II on the set to play to the stop position of your new “track” (The initial position of marker B is always the position of marker A plus 4 seconds).

7 Press YES to confirm the marked passage.
➜ **TRACK EDIT** is shown, A-B and the track edit time are displayed.



- Press TRACK EDIT again to leave Track Edit mode.
➜ The new “track” will be stored.

Note: If you open the CD changer tray the edit is deleted.

Clearing the track edit

1 Press NO during stop.
➜ CLEAR A-B 7 is displayed.

2 Press YES to clear the markers.
➜ The markers A-B are cleared.

TROUBLESHOOTING

WARNING
Under no circumstances should you try to repair the set yourself as this will invalidate the warranty. Do not open the set as there is a risk of electric shock.
If a fault occurs, first check the points listed, before taking the set for repair.
If you are unable to solve a problem by following these hints, consult your dealer or service center.

LASER SAFETY
This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

SYMPTOM
• possible solution:

No power
• ensure that the ON/OFF button is on: the set is in standby mode, press any key to activate it
• ensure that the power cord is plugged in correctly
• switch the set OFF and then immediately back ON

Auto track does not work
• check if auto track is selected
• check if there are 2.7 seconds silence in between the tracks (analog recording only)
• check if the source is a consumer source with the digital output according to the IEC audio standard
• source is DVD player (no track information)

No sound
• check the audio connections
• if using an amplifier, try using a different source

Amplifier sound is distorted
• check that the CD set analog output is not connected to the amplifier Phono input

Play will not start
• ensure that the label of the CD is facing up
• clean the disc
• check that the disc is not defective by trying another disc

Remote control does not work
• point the remote control directly at the set
• check the batteries and replace if necessary
• select the right source first

DISC RECOVER **indication**
• a power failure has occurred during recording, the CD recorder is attempting to repair the disc
• if DISC ERROR then appears on the display, the disc cannot be recorded further, and cannot be finalised. But it can still be played on the CD recorder or another CD recorder.
• on a CDRW disc, the track being recorded is lost, but further recording and finalisation can still be done

INSERT DISC **indication**
• replace or clean the disc
• insert a CD(RW), label upwards
• wait until the lens has cleared

USE AUDIO CD **indication**
• insert a digital audio disc marked with “Digital
• audio” and the special logo

CHECK INPUT **indication**
• select the correct input
• make sure the connection cord is properly connected

Will not record
• clean the disc
• check if CDR(W) is an unfinalised disc
• check that the disc is recordable and replace if necessary
• the disc is not an AUDIO disc (WRONG DISC)
• wrong input source chosen. Input label flashing (CHECK INPUT)
• text memory full (MEMORY FULL / FINALIZE CD). When a CDRW has to be unfinalised for recording. Erase text for other disc(s) or finalise other disc(s) to obtain memory space

Recording is distorted
• make sure the recording level is correct

20 second pause between recordings
• see “Recording with automatic synchronized start“.

Set does not react
• switch the set OFF and then immediately back ON

Recorded disc does not play in other standard CD player
• finalize the CDR(W)
• insert the CDRW in a CDRW compatible player